



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

D350-636-012
Job Sheet 171306



Part No: D350-636-012

Job Qty: 1 ea

Part Name: Skidtube RH, Std Wearplates, DART (Apical) Cylindrical/Aerazur Float Comp.



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 1/30/18

Job Tracking No:

Due Date: 2/9/18

Created By: Michelle Gagnon-Donovan

Type: SOLD

Description:

Note: DWG D3492 REV E SHEET 1, D2750-042 REV G SHEETS 1,2,5,9 IPP Rev:I 02.09.25 IPP Rev:J 06-03-23 As per Rev D IPP Rev:K 06-07.13 As per dsi9343 IPP Rev:L 07-07-28 Added SS Wearplates(Rev E) JLM Verf:EC IPP Rev:M 08-04-22 DD verified:EC IPP Rev:N 08-09-23 revF DD verified:ec IPP Rev:O 09-02-06 per PAR09-010 DD verf:EC IPP Rev:P 10.06.22 revise seq110 DD verf:EC IPP Rev:Q 10.10.01 as per IIN revH DDverf:EC IPP REV:R 13.08.27 PER ECN13-594 DD VERF:JLM

Ship Via:

Bill of Materials



Dart Aerospace Ltd.
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Hawkesbury, ON K6A 1K7
CANADA
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Container No: S047277



Part: D350-636-012

Job No: 171306

Serial No/Batch: S047277

Revision:

Inspector:

Date: 03/02/18

S047277x1xRH

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
90	Start up Operation	1 Ea		2/8/18	0.00	0.00	Start Up Skidtubes-1		
110	Skidtubes	1 pcs		2/8/18	0.00	4.36	Skidtubes-4		DASE
120	QC	1 pcs		2/8/18	0.00	0.00	QC10		38 DAS
130	QC	1 pcs		2/8/18	0.00	0.00	QC5		9-89 38
140	HandFinish	1 pcs		2/8/18	0.00	0.91	HandFinish1		SA 18-03-06
150	QC	1 pcs		2/8/18	0.00	0.00	QC7-2		38
160	Skidtubes	1 pcs		2/8/18	0.00	4.36	Skidtubes-1		J. PASTAL MGA
170	QC	1 pcs		2/8/18	0.00	0.00	QC10		38 DAS
180	QC	1 pcs		2/8/18	0.00	0.00	QC5		9-89 38
190	HandFinish	1 pcs		2/8/18	0.00	0.91	HandFinish2		SA 18-03-15
200	SprayPaint	1 pcs		2/8/18	0.00	0.69	Spray Paint PO: 0393		CZ 18-03-10
210	QC	1 pcs		2/8/18	0.00	0.00	QC14		BEB 18-03-19
230	HandFinish	1 pcs		2/9/18	0.00	0.91	HandFinish4		DAS
240	QC	1 pcs		2/9/18	0.00	0.00	QC5		38
250	Packaging	1 pcs		2/9/18	0.00	0.00	Packaging1-3		9-MAR 21 2018
260	QC	1 pcs		2/9/18	0.00	0.00	QC4		M. D.
265	DC	1 pcs		2/9/18	0.00	0.00	DC		M. D.
270	Packaging	1 pcs		2/9/18	0.00	0.00	Packaging3-1	DAS	M. D.
280	QC21-FG	1 Ea		2/9/18	0.00	0.00	QC21	21	MAR 21 2018

Part Op 110 - 1- Pick D2600-3 Bent Drill pilot holes as per Dwg D2750 sheet 4 (D2750-2 details). Drill using drill Jig DT8150 & Descriptions: DT8863A for second side only DT8863B for first side (detail K) 4- Locate DT8329 off of blade fitting bolt holes and drill pilot holes for blade fitting. Open to 0.500" using hole saw. VERIFY AND RECORD FWD BEND ANGLE. 6- Drill pilot holes for wearplates as per Dwg D2750 using DT8108 open to 0.297". 7- Open up holes of Detail J to 0.297" (total of 2 holes per side) 8- Weld D2744 Cap as per Dwg D2750 and QSI 004. Fill grooves in bend left from bending as per QSI 004 9- Grind welds flush as per Dwg D2750

160 - 1- Open up holes of Detail L using hole saw and ground handling to 0.625" (total of 8 holes per side) as per dwg D2750. 2- Open up holes of Detail K using hole saw to 0.750" (total of 4 holes per side) as per dwg D2750. 3- Open float holes using uni-bit to .500" (4 per Side) 4- Chamfer holes of Detail K, L, ground handling and float holes per dwg D2750 (welding instructions on sheet 9) 5- Deburr and blow out all chips from inside of tube 6- Prepare tube for welding, remove alodine as required. 7- Bond web D2739 in place as per QSI 015, let cure for 12hrs. A/R Sikaflex-291 batch:

exp. date: ***ATTN: USE I-BEAM LOCATION AID (BLADE FITTING)*** 8- Weld spacers D3490-1, D3490-3 and D2743 as per dwg D2750 & QSI004 (welding instructions on sheet 9) A/R Aluminum Rod batch: 038607 9- At section AP-AP drill out x-bolt spacer to 0.404" 10-Grind welds flush as per Dwg D2750 11- Spot face ground handling holes section (total of 4 places per side) as per dwg D2750 12- Deburr holes, ensure tube is free of all scratches before sending to paint.

180 - ***VERIFY C'BOARD IS GOOD***

190 - Re-alodine tube as per QSI 005 section 4.1.2.1 do not acid etch.

200 - 1- PRIME AS PER DWG AND QSI 005 4.2 PRIMER PRC DESOTO 515X349 BATCH: 2- PAINT WHITE AS PER DWG AND QSI 005 4.2 PAINT BATCH:

210 - Inspect for foreign object per QSI 024

230 - 1-Install inserts as per dwg D2750 2-Inspect for Foreign Objects 3-Install blade fitting D3488-042, wearshoes and ground handling hardware as per dwg D2750 SIKA FLEX 241 BATCH: M138287 EXP DATE: 18/04 4- assemble o'ring to plug as per dwg D3492 and apply o'ring lube A/R 55-o'ring lube batch: M135477 5-Coat all exposed fasteners with "LPS Procyon" batch: M133640

265 - record fwd angle: 89.8° Photocopy blue file and type labels per PPP D350-636-012 CHG 007

270 - Package as per PPP D350-636-012

Job BOM				
Part / Item	Component Name	Quantity	Operation	Container
D2600-3-BENT-RH	Extrusion Bent RH	1 Ea (1 ea)	90-Start up Operation	5043941
D2744	Cap	1 Ea (1 ea)	90-Start up Operation	5038825
D2739	350 I-Beam	1 Ea (1 ea)	160-Skidtubes	5040307
D2743	Crossbolt Spacer	8 Ea (8 ea)	160-Skidtubes	5026585
D3490-1	Cross Bolt Spacer	4 Ea (4 ea)	160-Skidtubes	5017322
D3490-3	Cross Bolt Spacer	4 Ea (4 ea)	160-Skidtubes	5040318
ALS4-1032-225	Rivnut	38 Ea (38 ea)	230-HandFinish	5048375
AN3C5A	Bolt	34 Ea (34 ea)	230-HandFinish	5019396
AN3C6A	Bolt	4 Ea (4 ea)	230-HandFinish	5019397
AN6C44A	Bolt	4 Ea (4 ea)	230-HandFinish	FM137055
AN8C35A	Bolt	1 Ea (1 ea)	230-HandFinish	FM137203
D2745	Bushing	8 Ea (8 ea)	230-HandFinish	5026936
D3488-042	Blade Fitting RH	1 Ea (1 ea)	230-HandFinish	5040148
D3492-1	Plug	8 Ea (8 ea)	230-HandFinish	5025647
D3492-3	Plug	8 Ea (8 ea)	230-HandFinish	5026057
D3535-25	Wearplate Center	1 Ea (1 ea)	230-HandFinish	5047122
D3536-25	Gasket Center	1 Ea (1 ea)	230-HandFinish	5046424
D3537-1	Wearpad	3 Ea (3 ea)	230-HandFinish	5037408
D3631-1	Washer	8 Ea (8 ea)	230-HandFinish	5048060
D3791-1	Wearpad	1 Ea (1 ea)	230-HandFinish	5024390
D3793-1	Wearplate Fwd	1 Ea (1 ea)	230-HandFinish	5038363
D3793-3	Wearplate Aft	1 Ea (1 ea)	230-HandFinish	5032647
D3794-1	Gasket Fwd	1 Ea (1 ea)	230-HandFinish	5031919
D3794-3	Gasket Aft	1 Ea (1 ea)	230-HandFinish	5046244
MS21043-6	Nut	4 Ea (4 ea)	230-HandFinish	5041601
MS21083C8	Nut	1 Ea (1 ea)	230-HandFinish	5034401
NAS1149C0332R	Washer	38 Ea (38 ea)	230-HandFinish	5044236
NAS1149C0832R	Washer	1 Ea (1 ea)	230-HandFinish	M138409-124
NAS1515H3L	Washer	4 Ea (4 ea)	230-HandFinish	FM137361-25
NAS1611-010	O-Ring	8 Ea (8 ea)	230-HandFinish	5049970
NAS1611-013	O-Ring	8 Ea (8 ea)	230-HandFinish	5022099
AN8C21A	Bolt	2 Ea (2 ea)	250-Packaging	
D2741	Replacement Blade	1 Ea (1 ea)	250-Packaging	
D3493-1	Washer	2 Ea (2 ea)	250-Packaging	
D3532-1	Spacer	2 Ea (2 ea)	250-Packaging	
MS21083C8	Nut	2 Ea (2 ea)	250-Packaging	
NAS1149D0863J	Washer	2 Ea (2 ea)	250-Packaging	

001773

Job Allocations				
Operation	Component Part	Required	Inventory	Allocated
90-Start up Operation	D2600-3-BENT-RH	1	1	0
	D2744	1	2	0
160-Skidtubes	D2739	1	8	0
	D2743	8	159	0
	D3490-1	4	48	0
	D3490-3	4	31	0
230-HandFinish	ALS4-1032-225	38	1,749	0
	AN3C5A	34	1,069	0
	AN3C6A	4	222	0
	AN6C44A	4	487	0
	AN8C35A	1	83	0
	D2745	8	185	0
	D3488-042	1	14	0
	D3492-1	8	179	0
	D3492-3	8	232	0
	D3535-25	1	20	0
	D3536-25	1	23	0
	D3537-1	3	18	0
	D3631-1	8	134	0
	D3791-1	1	18	0
	D3793-1	1	19	0
	D3793-3	1	25	0
	D3794-1	1	27	0
	D3794-3	1	17	0
	MS21043-6	4	67	0
	MS21083C8	1	123	0
	NAS1149C0332R	38	3,099	0
	NAS1149C0832R	1	108	0
	NAS1515H3L	4	435	0
	NAS1611-010	8	359	0
	NAS1611-013	8	447	0
250-Packaging	AN8C21A	2	209	0
	D2741	1	33	0
	D3493-1	2	62	0
	D3532-1	2	32	0
	MS21083C8	2	123	0
	NAS1149D0863J	2	189	0
Part Specifications				
Specifications could not be found.				

Plex 1/30/18 3:29 PM Dart.Gagnon.Michelle

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JAN 30 2018

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2013-08-13
nd

QTY -041	QTY -042	QTY -043	QTY -044	PART NUMBER	DESCRIPTION
X				D2750-041	350 SKIDTUBE ASSEMBLY, LH
	X			D2750-042	350 SKIDTUBE ASSEMBLY, RH
		X		D2750-043	350 SKIDTUBE ASSEMBLY, LH
			X	D2750-044	350 SKIDTUBE ASSEMBLY, RH
1	1	1	1	D2739	WEB
8	8	8	8	D2743	SPACER
1	1	1	1	D2744	CAP
8	8	8	8	D2745	BUSHING
1				D2750-1	SKIDTUBE WELDMENT, LH
	1			D2750-2	SKIDTUBE WELDMENT, RH
		1		D2750-3	SKIDTUBE WELDMENT, LH
			1	D2750-4	SKIDTUBE WELDMENT, RH
1		1		D3488-041	BLADE FITTING, LH
	1		1	D3488-042	BLADE FITTING, RH
4	4	4	4	D3490-1	SPACER
4	4			D3490-3	SPACER
		4	4	D3490-5	SPACER
8	8	8	8	D3492-041	PLUG ASSEMBLY
8	8			D3492-043	PLUG ASSEMBLY
		8	8	D3492-045	PLUG ASSEMBLY
1	1	1	1	D3535-25	WEARSHOE
1	1	1	1	D3536-25	GASKET
3	3	3	3	D3537-1	WEARPAD
8	8	8	8	D3831-1	WASHER
1	1	1	1	D3791-1	WEARPLATE
1	1	1	1	D3793-1	WEARSHOE
1	1	1	1	D3793-3	WEARSHOE
1	1	1	1	D3794-1	GASKET
1	1	1	1	D3794-3	GASKET
38	38	38	38	ALS4-1032-225	INSERT (OR ALS7-1032-225, AKS4-1032-225, AELS-1032-225)
34	34	34	34	AN3C5A	BOLT
4	4	4	4	AN3C8A	BOLT
4	4	4	4	AN8C44A	BOLT
1	1	1	1	AN8C35A	BOLT
38	38	38	38	AN960C10L	WASHER
1	1	1	1	AN960C816L	WASHER
4	4	4	4	MS21043-6	NUT
1	1	1	1	MS21083C8	NUT
4	4	4	4	NAS1515H3L	WASHER

GENERAL NOTES:

- MATERIAL: MAKE D2750-1/-2/-3/-4 FROM D2600-3 EXTRUSION (INITIAL LENGTH = 120.0).
- FINISH: ACID ETCH, ALODINE ASSEMBLY PER DART QSI 005 4.1 PRIOR TO INSTALLING D2739 WEB.
STANDARD: PRIME (REF. 4.2.1.3.3) AND PAINT WHITE PER DART QSI 005 4.2
OPTIONAL: POWDER COAT WHITE (REF. 4.3.5.1) PER DART QSI 005 4.3
BLACK ANTI-SKID PAINT AS INDICATED TO 1.0 ABOVE SKIDTUBE CENTER-LINE PER DART 005 4.4 (OPTIONAL).
- TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- UNITS: INCHES UNLESS OTHERWISE NOTED
- BREAK SHARP EDGES: N/A
- IDENTIFICATION: N/A
- WEIGHT: D2750-041/-042/-043/-044 = 26.5 LBS
- WELD PER DART QSI 004
- INSTALL ALS4-1032-225 INSERTS AFTER FINISH AS INDICATED. DRILL 'F' SIZE HOLES ($\phi 0.297$) FOR WEARSHOE INSERTS
- FINAL CONFIGURATION SHOULD HAVE THE FOLLOWING MINIMUM MECHANICAL PROPERTIES:
MINIMUM YIELD TENSILE STRENGTH = 35 KSI
MINIMUM ULTIMATE TENSILE STRENGTH = 38 KSI
- COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES "LPS PROCYON" AFTER FINAL ASSEMBLY, CLEAN EXCESS OFF
FINISH WITH MEK DEGREASER.
- SPACER AND PLUG INSTALLED SAME AS SECTION AJ-AJ EXCEPT HORIZONTAL
- SPACER AND PLUG INSTALLED SAME AS SECTION AP-AP EXCEPT HORIZONTAL

G	CORRECTED TOLERANCE ON $\phi 0.500$ THRU HOLE: IS $+0.010/-0.000$, WAS $+0.100/-0.000$ (ZN B3-4, B2-5); ADD VIEW TO CONTROL FWD BEND ORIENTATION (ZN D-1/-4/-5/-6/-7); UPDATED FINISH OPTIONS: INSIDE OF TUBE NO LONGER SPRAYED WITH LPS-3. REASON: PARTS-276 AND NCR13-2757	MB	13.07.11
F	INCORPORATE DSI 9413; QTY (3) D3537-1 WAS QTY (5) (ZN C8-1); D3791-1/-3 REPLACES D3535-13/-35 (ZN C8-1); D3794-1/-3 REPLACES D3536-13/-35 (ZN B8-1); ADD D3791-1 (ZN C8-1); WEARSHOE HOLES UNDER FWD/AFT SADDLE REMOVED (8 PL); WEARSHOE HARDWARE QTY UPDATED (ZN B8-1); D3488-041/-042 HARDWARE UPDATED (ZN C1-8, 9, 10, 11); ADD NOTE 12 AND 13 (ZN A6-1); REASON: REF. NCR 08-043	PH	08.07.16
E	CHANGE TO STAINLESS STEEL WEARPLATES; ADD RUBBER GASKETS; CHANGE INSERTS; ADD D3831-1; REMOVE QTY (38) NAS1515H3L; REMOVE QTY (10) NAS1515H8L; REMOVE D2741; QTY (2) AN960C818; REMOVE QTY (2) MS21083C8	CB	07.05.17
D	ADD HOLES AND SPACERS FOR APICAL FLOATS; INCORPORATE DEO 61339157	PH	06.01.05
C	ADD D2750-3/D2750-4; INCORPORATE D2738 AND D2740	CP	98.11.18
B	CHANGE MS24684-S293 TO AN8-16A	CP	98.09.01
A	NEW ISSUE	DS	98.04.16
REV.	DESCRIPTION	BY	DATE
DESIGN	MM	DART AEROSPACE USA, INC.	
DRAWN		KENT, WA	
CHECKED		DRAWING NO.	REV. G
MFG. APPR.		D2750	SHEET 1 OF 11
APPROVED		TITLE	SCALE
DE APPR.		350 SKIDTUBE ASSEMBLY	NTS
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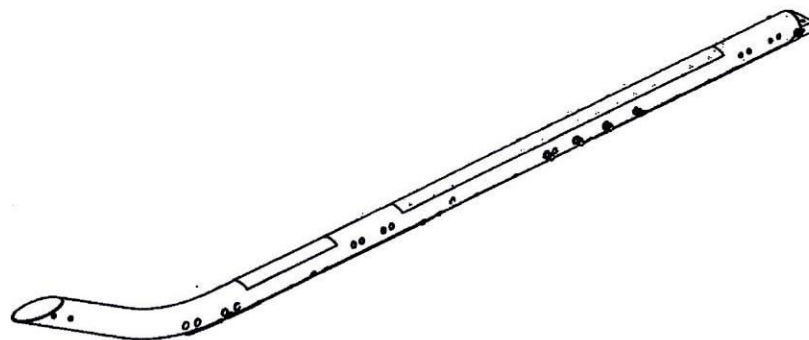
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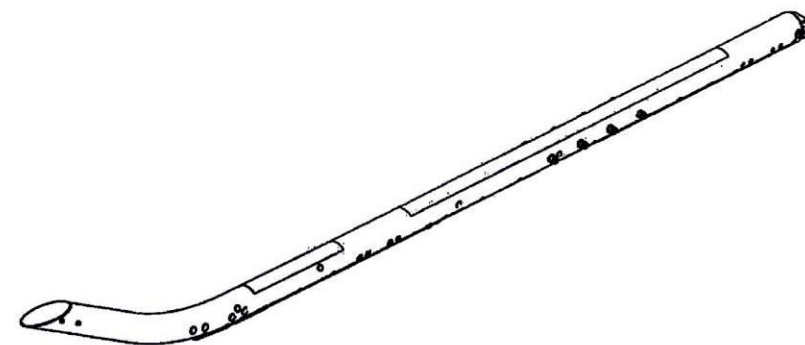
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D2750-041 350 SKIDTUBE ASSEMBLY, LH



D2750-042 350 SKIDTUBE ASSEMBLY, RH

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DESIGN	MM	DART AEROSPACE USA, INC.	
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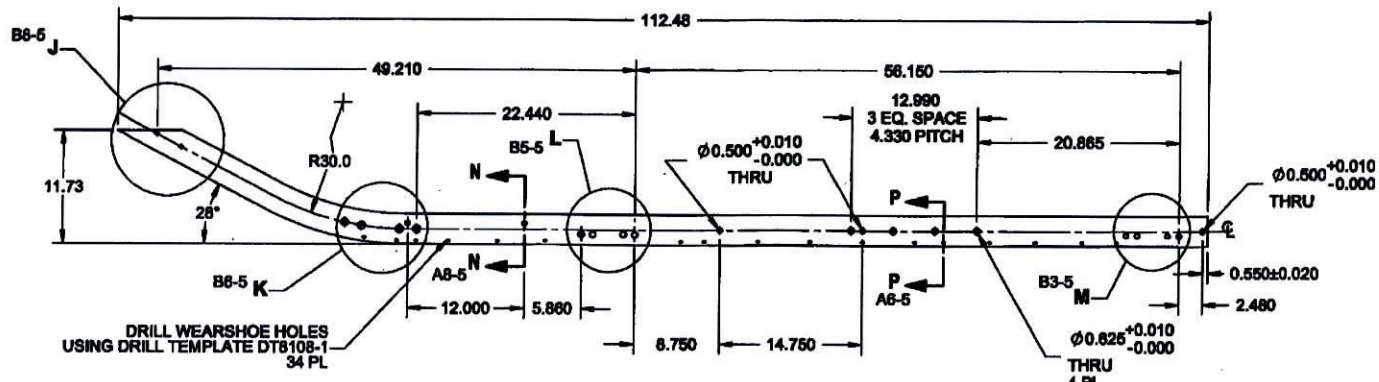
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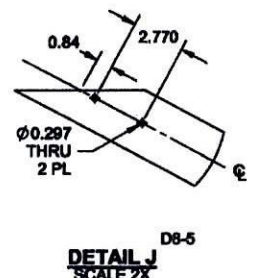
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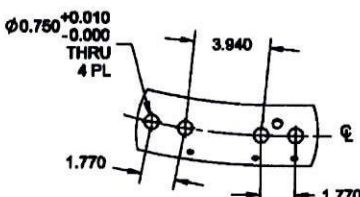
MAX ALLOWABLE
TWIST ON FWD BEND
(VIEWED LOOKING FWD)



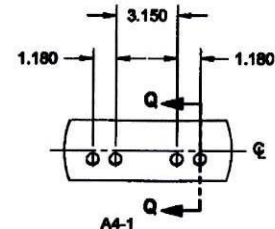
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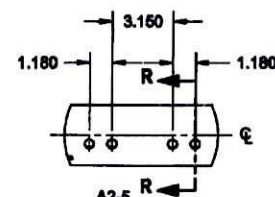
DETAIL J
SCALE 2X



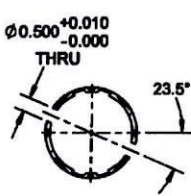
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SCALE 2X



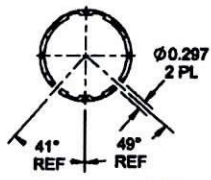
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SCALE 2X



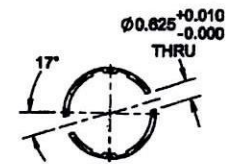
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SCALE 2X



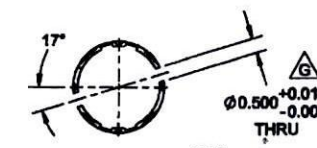
SECTION N-N
SCALE 3X, 2 PL



SECTION P-P
SCALE 3X, 17 PL



SECTION Q-Q
SCALE 3X, 4 PL

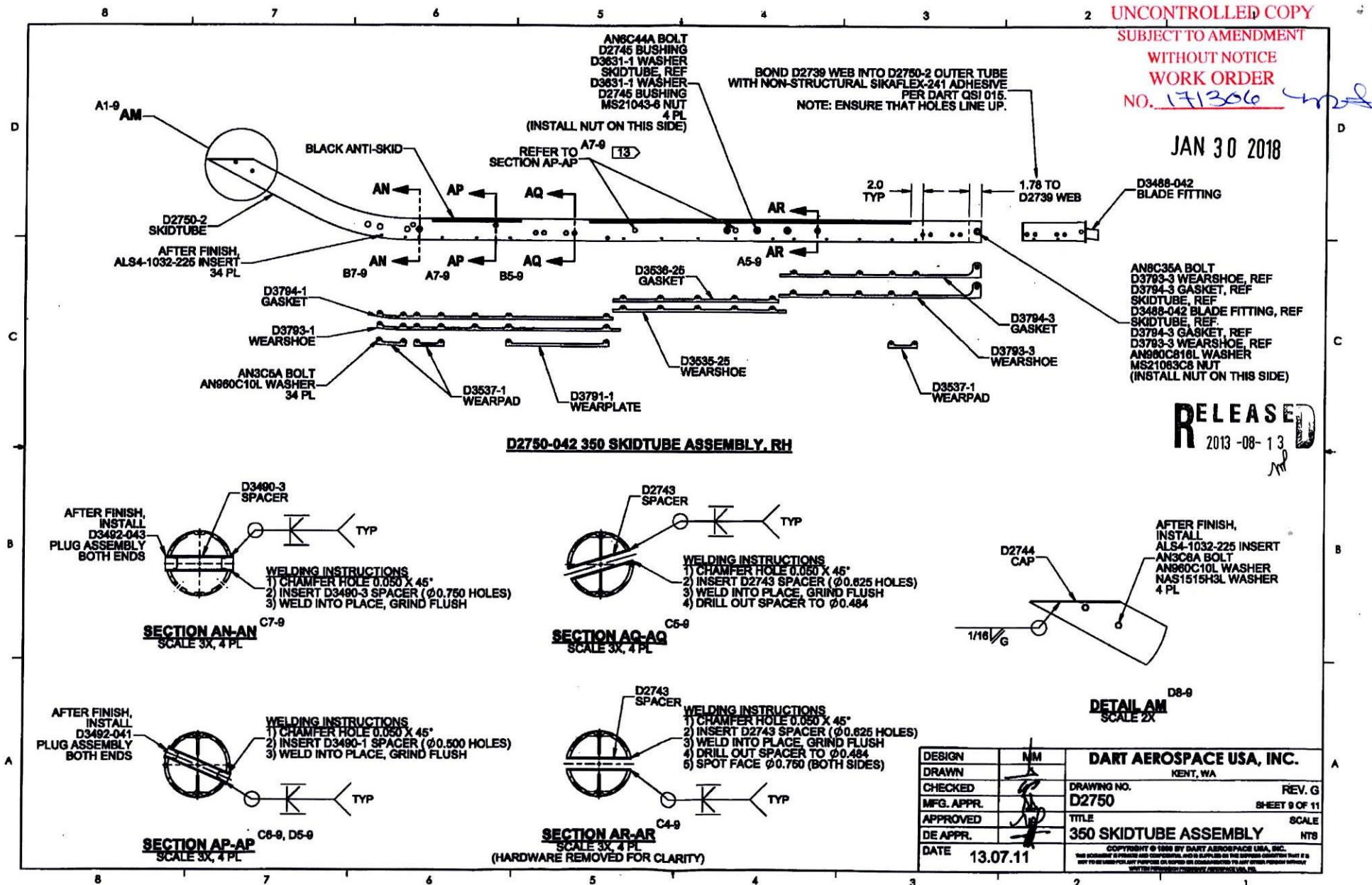


SECTION R-R
SCALE 3X, 4 PL

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MFG. APPR.		D2750	SHEET 5 OF 11
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DE APPR.		350 SKIDTUBE ASSEMBLY	NTS
DATE	13.07.11	COPYRIGHT © 1999 BY DART AEROSPACE USA, INC.	

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Canada

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Container View (Active) - Master Unit Containers

Master Unit No	Container No	Part No	Part Name	From Container	Current Location	Quantity
001830	S053460	AN8C21A	Bolt	fm137162	OVER004	2
001830	S053459	D2741	Replacement Blade	F163260-1	ST538	1
001830	S053458	D3493-1	Washer	S031096	ST037	2
001830	S053457	D3532-1	Spacer	S040493	ST038	2
001830	S053456	MS21083C8	Nut	S016888	ST297	1
001830	F125268	NAS1149D0863J	Washer		ST263	1
001830	S053455	NAS1149D0863J	Washer	F125635	ST263	1

Note: Ad hoc query view of Part.dbo.Container where Container.Active = 1.

Plex 3/21/18 10:16 AM dart.quirion.sonia